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PC Code 103201

DATA REVIEW NUMBER: ES W1

TEST: Avian Reproduction Study

SPECIES: Mallard Duck (Anas Platychynchos)

RESULTS: This study looked at the following levels; control:

0.1 ppm (94.7% a.i.)

0.1 ppm (63.1% a.i.)

TRICOSENE

Investigator concluded that neither the 63.1% tricosene or the 94.7% tricosene present a reproductive hazard when present in diet at 0.1 ppm. No effects were noted on the reproductive success of the birds and no effects were noted on body weight gain or food consumption.

CHEMICAL: Z-9-Tricosene (Technical)

TITLE: One Generation Reproduction Study - Mallard Duck, Z-9-Tricosene Final Report.

ACCESSION NO.: 229393

STUDY DATE: August 28, 1975

RESEARCHER: Robert Fink; Wildlife Res. Div., Truslow Farm

REGISTRANT: Zoecon Ind.

VALIDATION CATEGORY: Core

CATEGORY REPAIRABILITY: N.A. This study was given additional review after a response by the Registrant to a request that all data pertinent to a statistical analysis of reported results be submitted. This analysis has been done using one way Anova and Duncan's Multiple Range test if applicable. All other procedures for avian reproduction followed standard protocols. The statistical analysis done by this section confirmed the results reported by the test lab. Calculated F for all parameters was less than Tabular F indicating that there are no significant differences at the $P = 0.05$ level.

VALIDATOR: Tom O'Brien, 1/19/78.



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ADDITIONAL INFORMATION: Mallard Duck

Eggs Laid						\bar{x}	F
Control	184	173	217	186	149	181.8	.153<3.89
0.1 (94.7%)	142	175	194	208	213	186.4	
0.1 (63.1%)	174	170	181	198	232	191	

Eggs Set						\bar{x}	F
Control	176	159	204	176	139	170.8	.185<3.89
0.1 (94.7%)	133	163	186	195	204	176.2	
0.1 (63.1%)	162	162	170	188	222	180.8	

Viable Embryos						\bar{x}	F
Control	171	136	201	170	133	162.2	.127<3.89
0.1 (94.7%)	127	152	174	187	192	166.4	
0.1 (63.1%)	162	162	170	188	222	180.8	

Live Three Week Embryos						\bar{x}	F
Control	169	135	198	166	131	159.8	.163<3.89
0.1 (94.7%)	127	151	172	185	183	163.6	
0.1 (63.1%)	157	153	159	183	189	168.2	

Normal Hatchlings						\bar{x}	F
Control	117	88	142	120	88	111	.395<3.89
0.1 (94.7%)	89	79	111	135	114	105.6	
0.1 (63.1%)	112	93	119	113	154	118.2	

Shell Thickness						\bar{x}	F
Control	.350	.353	.338	.357	.351	.3498	.565<3.89
0.1ppm (94.7%)	.342	.361	.352	.357	.336	.3406	
0.1ppm (63.1%)	.334	.341	.336	.374	.346	.3462	

14-Day Survivors										F
Control	40	79	93	94	79	53	68	47	69.125	
0.1ppm (94.7%)	29	68	72	87	70	72	75	51	65.5	.334<4.32
0.1ppm (63.1%)	53	103	67	91	79	75	57	60	73.125	